

PLB 116 Winter 2013

Created by: Doug
Created on: 11/2/2012
Sections:
Lab rooms:

Lab 1 Review Of Anatomy And Life Cycle

Jan 8, 2013

Quantity	Plant Material	Date planted	Days	Directions
1	Equisetum	Jan 8, 2013		
1	Fern	Jan 8, 2013		
1	Fern	Jan 8, 2013		
	Pine branch with old cones	Jan 8, 2013		

Lab 2 Charophyta, Bryophytes, Rhyniophyta

Jan 10, 2013

Quantity	Plant Material	Date planted	Days	Directions
	Anthoceros (hornwort)	Jan 10, 2013		
	Chara or Nitella	Jan 10, 2013		
	Coleochaete on slides, started 11/20	Jan 10, 2013		
	Japanese Psilotum with sporangia on tips.	Jan 10, 2013		
	Marchantia w/sporophytes	Nov 29, 2012	42	For student dissection
	Marchantia with Gemmae	Jan 10, 2013		
	Moss w/sporophytes	Jan 10, 2013		For student dissection
	Moss with tiny, upright sporophytes.	Jan 10, 2013		
2	Ricciocarpos	Jan 10, 2013		Enter directions here

Lab 3 Lycopodium

Jan 15, 2013

Quantity	Plant Material	Date planted	Days	Directions
	Lycopodium lucidulum	Jan 15, 2013		
	Lycopodium squarrosum	Jan 15, 2013		
2 plants	Ruselia flowers	Jan 15, 2013		Enter directions here

Lab 4 Selaginella, Angle Meristem Experiment

Jan 17, 2013

Quantity	Plant Material	Date planted	Days	Directions
???	Fern gametophytes, some with sporophytes	Jan 17, 2013		

Selaginella hardeiformes (red one)	Jan 17, 2013
Selaginella martensii (2 flats)and	Jan 17, 2013
Selaginella pallescens	Jan 17, 2013
Selaginella sp.	Jan 17, 2013
Selaginella sporelings still attached to	Jan 17, 2013
Selaginella uncinata (blue one)	Jan 17, 2013
Selaginella viticulosa	Jan 17, 2013
Selaginella, many diverse species.	Jan 17, 2013

Lab 5 Lepidodendrales

Jan 22, 2013

Quantity	Plant Material	Date planted	Days	Directions
	100 plastic petri dishes of washed agar, .5X	Jan 22, 2013		
	40 4" pots, labels, and sunshine mix, liter	Jan 22, 2013		
	5 species of fern spores to sow--COLLECT	Jan 22, 2013		
???	Fern gametophytes, some with sporophytes	Jan 22, 2013		
	Fern spores for students	Jan 22, 2013		
	Lycopodium, anything available	Jan 22, 2013		
	Sow fern spores	Jan 22, 2013		

Lab 6 Isoetes, Mold Cast Technique

Jan 24, 2013

Quantity	Plant Material	Date planted	Days	Directions
	Any small plant for molding	Jan 24, 2013		
	Isoetes	Jan 24, 2013		
	Small plant parts for molding demo: petals,	Jan 24, 2013		

Lab 7 Psilophyta

Jan 29, 2013

Quantity	Plant Material	Date planted	Days	Directions
2 pots	Psilotum & gametophytes	Jan 29, 2013		
	Psilotum nudum'Bunryuzan'	Jan 29, 2013		

Lab 8 Spenophyta

Jan 31, 2013

Quantity	Plant Material	Date planted	Days	Directions
	Bring in lots of E. diffusum and one in	Jan 31, 2013		
	E. giganteum	Jan 31, 2013		
	E. giganteum B93.314	Jan 31, 2013		
	E. ramosissimum	Jan 31, 2013		
	E. ramosissimum B85.024 small, near	Jan 31, 2013		
2	Equisetum	Dec 17, 2012	45	Move to warm long days. Weier is good for this.
2	Equisetum diffusum strobili	Dec 22, 2012	40	Dig up and move into greenhouse.
	Equisetum--all available species and	Jan 31, 2013		

Lab 9 Eusporangiate Ferns

Feb 5, 2013

Quantity	Plant Material	Date planted	Days	Directions
	Angiopteris pinnae	Feb 5, 2013		
	Angiopteris--lg fern in main room	Feb 5, 2013		
	Botrychium	Feb 5, 2013		
	Botrychium--in 2nd fern room B98.084	Feb 5, 2013		
	Danaea	Feb 5, 2013		
	Macroglossum--1st fern room B89.353	Feb 5, 2013		
	Marattia	Feb 5, 2013		
	Marattia fraxinea--2nd fern room B88.074	Feb 5, 2013		
	Ophioglossum	Feb 5, 2013		
2	Ophioglossum	Feb 5, 2013		
	Ophioglossum B59.137	Feb 5, 2013		
	Polypodium chunks	Feb 5, 2013		
	Polypodium plant chunks--lg, hanging in	Feb 5, 2013		

Lab 10 Filicales

Feb 7, 2013

Quantity	Plant Material	Date planted	Days	Directions
	Adiantum	Feb 7, 2013		
	Asplenium	Feb 7, 2013		

	Asplenium, Cionidium	Feb 7, 2013	
	Cyrtomium	Feb 7, 2013	
	Davallia	Feb 7, 2013	
	Davallia--about 10 inches of rhizomes	Feb 7, 2013	
	Dennstaedtia	Feb 7, 2013	
	Dryopteris	Feb 7, 2013	
	Dryopteris, Cyrtomium, Woodwardia w/ Fern fronds showing soral and sporangial	Feb 7, 2013	
	Fronds of Polypodium and	Feb 7, 2013	
	Lygodium	Feb 7, 2013	
	Lygodium, Osmunda, Dennstaedtia,	Feb 7, 2013	
	Osmunda	Feb 7, 2013	
	Platycerium	Feb 7, 2013	
	Polypodium portions	Feb 7, 2013	
	Rhizomes of Hypolepis (or Polypodium)	Feb 7, 2013	
	Rumohra and Cystopteris	Feb 7, 2013	Can use different genera.
2 plants	Silverback Fern	Feb 7, 2013	Enter directions here
	Woodwardia	Feb 7, 2013	

Lab 11 Filicales, Marsileales, Salviniiales

Feb 12, 2013

Quantity	Plant Material	Date planted	Days	Directions
	Azolla	Feb 12, 2013		
	Azolla, Marsilea, Pilularia, Regnellidium	Feb 12, 2013		
	Hypolepis rhizomes to section	Feb 12, 2013		
	Marsilea	Feb 12, 2013		
	Marsilea drummondii sporocarps	Feb 12, 2013		
	Pilularia-check 2 weeks ahead to be sure	Feb 12, 2013		
	Regnellidium--west of 61. check with Tim 2	Feb 12, 2013		
	Salvinia--in fern/orchid room and heat	Feb 12, 2013		

Lab 12 Seed Ferns And Cycads, Cycad Tour

Feb 14, 2013

Quantity	Plant Material	Date planted	Days	Directions
	Bowenia (leaf like) B84.298	Feb 14, 2013		
3 - 5" pots	Cycas revoluta seed	Oct 17, 2012	120	6 seed/pot
2 - 7.5" pots	Dioon seedlings	Oct 17, 2012	120	6-8 seeds/pot, cover with sand.
	Dioon sp. B90.482	Feb 14, 2013		
	Encephalartos horridus (spikey one)	Feb 14, 2013		
	small Cycas revoluta B89.003	Feb 14, 2013		
	small Zamia	Feb 14, 2013		
	Stangeria B 89.006	Feb 14, 2013		
	Zamia pumila	Feb 14, 2013		

Lab 13 Cycadales And Ginkgo

Feb 19, 2013

Quantity	Plant Material	Date planted	Days	Directions
24 seed	Cycad seed, large - no germinate	Feb 19, 2013		
1 cone	Cycad, female cones	Feb 19, 2013		
2	Ginkgo	Dec 31, 2012	50	Move to long days.
	Ginkgo--forced tree and 6or 7 18" branches	Feb 19, 2013		

Lab 14 Coniferales And Conifer Tour

Feb 21, 2013

Quantity	Plant Material	Date planted	Days	Directions
	any potted conifers available, including	Feb 21, 2013		
	Araucaria	Feb 21, 2013		
	branches, with cones of: Abies	Feb 21, 2013		
	Calocedrus	Feb 21, 2013		
	Cedrus	Feb 21, 2013		
	Cupressus	Feb 21, 2013		
	Juniperus	Feb 21, 2013		
	lots of 1st and 2nd year cones	Feb 21, 2013		
	Metasequoia	Feb 21, 2013		
	Picea	Feb 21, 2013		

Pinus coulteri	Feb 21, 2013
Pinus halepensis, 2-3 years of cones.	Feb 21, 2013
Pinus sabiniana	Feb 21, 2013
Pinus torreyana	Feb 21, 2013
Podocarpus, C St bet 5th and 6th	Feb 21, 2013
Pseudotsuga	Feb 21, 2013
Sequoia	Feb 21, 2013
Sequoiadendron	Feb 21, 2013
Taxus	Feb 21, 2013
Thuja, by Mrak	Feb 21, 2013
Torreyia, 25 yds west of desert bridge.	Feb 21, 2013

Lab 15 Coniferales

Feb 26, 2013

Quantity	Plant Material	Date planted	Days	Directions
1/4 pound of	Pinyon pine seed	Feb 26, 2013		
3 - 4" pots	Pinyon pine seedlings	Dec 18, 2012	70	21 seed, refrigerate, wet paper towel

Lab 16 Gnetophyta And Greenhouse Tour

Feb 28, 2013

Quantity	Plant Material	Date planted	Days	Directions
	Ephedra	Feb 28, 2013		
	Ephedra	Feb 28, 2013		
1	Gnetum	Feb 28, 2013		
1	Gnetum, cones if available	Feb 28, 2013		
1/4 pound of	Pinyon pine seed	Feb 28, 2013		
2 seedlings	Welwitschia seedlings with cotyledons	Dec 15, 2012	75	8 - rose pots pumice w/soil at bottom
	Welwitschia, mature plants, seedlings,	Feb 28, 2013		

Lab 17 Angiosperm Wood Anatomy and Floral Development - Stamens And Pollen

Mar 5, 2013

Quantity	Plant Material	Date planted	Days	Directions
2 plants	Asclepias curassavica flowers	Mar 5, 2013		Enter directions here
4 - 5.5" pots	Bean flowers	Jan 27, 2013	37	3 seed/pot, MUC
	Clematis flowers	Mar 5, 2013		

2- 2 gallon pots	Corn in bloom	Jan 2, 2013	62	4 seed/pot, 2 pl/pot, MUC
2 - 3 gallon	Helianthus flowers	Dec 18, 2012	77	3 seed/pot, 2pl/pot MUC
2	Impatiens w/pollen--yellow and red tubular	Mar 5, 2013		
2	Impatiens, simple pink flower.	Dec 5, 2012	90	4 cuttings
3 - 4" pots	Pea flowers	Jan 15, 2013	49	4 seed/pot, MUC
2 - 1 gallon	Tomato flowers	Jan 1, 2013	63	1 - 4"pot, 12 seeds
	Tradescantia	Mar 5, 2013		
	Tradescantia flowers w/pollen	Mar 5, 2013		

Lab 18 Angiosperm Reproduction - Embryo Sac And Embryogeny

Mar 7, 2013

Quantity	Plant Material	Date planted	Days	Directions
2 - 6"pots	Capsella bursa-pastoris	Jan 24, 2013	42	2 - 6" pots, cover w/sand
2 - 6"pots	Capsella bursa-pastoris	Jan 10, 2013	56	2 - 6" pots, cover w/sand
2 - 6"pots	Capsella bursa-pastoris	Feb 7, 2013	28	2 - 6" pots, cover w/sand

Lab 19 Angiosperm Reproduction - Fruit And Seeds

Mar 12, 2013

Quantity	Plant Material	Date planted	Days	Directions
	1 cantaloupe	Mar 12, 2013		
	1 eggplant	Mar 12, 2013		
	1 mango	Mar 12, 2013		
	1 papaya	Mar 12, 2013		
	1 pepper	Mar 12, 2013		
	1 pineapple--but a week early	Mar 12, 2013		
	10 oranges	Mar 12, 2013		
	2 avocados	Mar 12, 2013		
	2 cucumbers	Mar 12, 2013		
	2 nectarine or peach	Mar 12, 2013		
	2 pears	Mar 12, 2013		
	2 plums	Mar 12, 2013		
	4 bananas	Mar 12, 2013		
	4 kiwi	Mar 12, 2013		
20-30 seed	Asclepias sp. seed with dispersal fibers still	Mar 12, 2013		

	bag of apples	Mar 12, 2013	
?	Broad bean seed, Soak for 24 hours.	Mar 12, 2013	Enter directions here
	cherry tomatoes--bsk	Mar 12, 2013	
	coconut	Mar 12, 2013	
1	Corn ear	Mar 12, 2013	Purchase at store
?	Cotton seed, Soak for 24 hours.	Mar 12, 2013	Enter directions here
2 plants	Cucumber flowers	Mar 12, 2013	Enter directions here
?	Cucumber or melon seed, Soak for 24	Mar 12, 2013	Enter directions here
	dried figs--pkg. Aisle 7	Mar 12, 2013	
	get purchase order not to exceed \$75:	Mar 12, 2013	
	grapes, seeded if possible	Mar 12, 2013	
	green beans--handful	Mar 12, 2013	
	Interesting fruits from Tim & Doug	Mar 12, 2013	FRUITS AND SEEDS
	interesting fruits from Tim:Asclepias, Pop	Mar 12, 2013	
?	Lupine seed, Soak for 24 hours.	Mar 12, 2013	Enter directions here
	mixed nuts (purchased around Christmas)	Mar 12, 2013	
	okra, pickled (mild). Aisle 8	Mar 12, 2013	
?	Pea seed, SOAK FOR 24 HOURS.	Mar 12, 2013	
	peanuts--salted in bag. Aisle 7, Farmtown	Mar 12, 2013	
	pomegranate	Mar 12, 2013	
	raspberries or blackberries--bsk	Mar 12, 2013	
	Seeds: peas, kidney beans, corn radish	Mar 12, 2013	
	Seeds: Barley, Fava, Castor bean,	Mar 12, 2013	FRUITS AND SEEDS
	smoked almonds--can	Mar 12, 2013	
	snow peas--handful	Mar 12, 2013	
	strawberries--bsk	Mar 12, 2013	
	sunflower seeds, salted--bag. Aisle 7	Mar 12, 2013	

Lab 20 Lab Final

Mar 14, 2013

Quantity	Plant Material	Date planted	Days	Directions
	Lab final, no plants requested	Mar 14, 2013		